



Medical PA Criteria Document

	Medical Procedure Class	MRI of Thoracic Spine						
	Date:	May 1, 2007						
	Updated:	January 1, 2008						
	Executive Su							
Purpose:		To identify and discourage the inappropriate use of high tech, high cost diagnostic imaging						
Why was this Issue Selected:		The indiscriminate use of expensive imaging exams for common and uncomplicated clinical presentations of the back and spine, e.g. chronic neck or back pain, have contributed to the perception of low value from these studies and to the high costs in managing these conditions. Patients with normal radiographic results (plain film X-rays) and no neurologic signs or symptoms will usually require no further imaging. However, patients with normal radiographs and positive neurologic signs or symptoms may require MR imaging.						
Procedures subject to Pre-Certification		 72146 Magnetic resonance (eg, proton) imaging, spinal canal and contents, thoracic; without contrast material 72147 Magnetic resonance (eg, proton) imaging, spinal canal and contents, thoracic; with contrast material(s) 72157 Magnetic resonance (eg, proton) imaging, spinal canal and contents, without contrast material, followed by contrast material(s) and further sequences, thoracic 						
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Setting & Population:		All Medicaid fee-for-service patients						
T Increased risk of ADE								
T	ype of Criteria:	☐ Increased risk of ADE ☐ Appropriate Indications	☐ Non-Preferred Agent☐					
С	Oata Sources:	☐ Only administrative databases	☐ Databases + Prescriber- supplied					

Setting & Population

• Procedure Group for review: MRI of Thoracic Spine

- Common Diagnostic Indications: Pain, radiculopathy, new or progressive neurologic symptoms or deficits.
- Considerations: Unless contraindicated, MRI is the preferred modality for most thoracic spine imaging over CT, except for a few indications such as evaluation of suspected fracture or fracture follow-up.
- Age range: All patients

Approval Criteria

Patients with any of the following diagnostic indications for MRI of the Thoracic Spine, which may include supporting clinical information:

- Persistent pain or radiculopathy, with > 6 weeks of conservative therapy and inadequate response to treatment. Note: children may not require 6 weeks
- New or progressive neurologic symptoms or deficits, e.g. motor or sensory loss attributable to thoracic spine pathology
- Signs or symptoms of spinal cord or nerve root compression, e.g. from disc herniation or spinal stenosis
- Multiple Sclerosis or other demyelinating diseases or myelopathies
- Infectious or inflammatory processes
- Possible spinal cord injury and post-traumatic neurologic deficit
- Post-operative evaluation, with new neurologic findings
- Tumor evaluation, for suspected or documented lesions
- Cauda /Equina Syndrome which may present with bilateral Radiculopathy, saddle anesthesia, bowel or bladder dysfunction
- Fracture evaluation for suspected or known fracture
- Severe scoliosis, which may include pre- or post-operative evaluation

Approval Diagnoses (Appendix A)

Condition	Submitted ICD-9 Diagnoses	СРТ	Date Range	Client Approval (Initials)
Persistent pain or radiculopathy with > 6 weeks of conservative therapy and inadequate response to treatment.	720.0 - 724.9, 729.2, 781 - 781.99, 782	62310, 97530, 97810 – 97814, 98925 - 98929, 98940 - 98942	12 months	
New or progressive neurologic symptoms or deficits (motor/sensory loss) attributable to Thoracic spine pathology	720.0 - 724.9, 729.2, 781 - 781.99, 782	NA	12 months	
Signs or symptoms of spinal cord or nerve root compression (disc herniation/spinal stenosis)	720.0 - 724.9, 729.2, 781 - 781.99, 782	NA	12 months	
Multiple sclerosis or other demyelinating diseases or myelopathies	340, 341 - 341.9	NA	12 months	
Infectious or inflammatory processes	730.9	NA	12 months	
Possible spinal cord injury and post- traumatic neulogic defict	952.1 - 952.19, 952.8, 952.9	NA	12 months	
Post-operative evaluation, with new neurologic findings	720.0 - 724.9, 729.2, 781 - 781.99, 782	NA	12 months	
Tumor evaluation, for suspected or documented lesions	170, 192.2, 192.3, 192.8, 192.9, 198.3, 198.4, 213.2, 225.3, 225.4, 225.8, 225.9, 237.5	NA	12 months	
Cauda Equina Syndrome, which may present with bilateral radiculopathy, saddle anesthesia, bowel or bladder dysfunction	344.6 - 344.61	NA	12 months	
Fracture evaluation, for suspected or known fracture	805.2 - 805.3, 806.2 - 806.39	NA	12 months	

Denial Criteria

Patients without any of the above diagnostic indications for MRI of the Thoracic Spine. Some of these requested exams may be approvable upon the submission of appropriate supporting clinical information.

- For patients with chronic back pain and the absence of neurologic signs and symptoms, plain radiographs should usually be the initial study performed in their evaluation
- Has not had a Thoracic Spine X-ray in the last 60 days
- Have had a CT or MRI of the Thoracic Spine in the last 180 days

References

- 1. Hitselberger WE, Witten RM. Abnormal myelograms in asymptomatic patients. J Neurosurg 1968; 28(3):204-206.
- Wiesel SW, Tsourmas N, Feffer HL, et al. A study of computer-assisted tomography. I. The incidence of positive CAT scans in an asymptomatic group of patients. Spine 1984; 9(6):549-551.
- 3. Saifuddin A. MRI of acute spinal trauma. Skeletal Radiol 2001; 30(5):237-246.
- 4. Brown CVR, Antevil JL, Sise MJ, Sack DI. Spiral computed tomography for the diagnosis of cervical, thoracic, and lumbar spine fractures: Its time has come. J Trauma 2005; 58(5):890-896.
- 5. Wintermark M, Mouhsine E, Theumann N, et al. Thoracolumbar Spine Fractures in Patients who have Sustained Severe Trauma: Depiction with Multi-Detector Row CT. Radiology 2003; 227: 681-689.
- 6. Jaramillo D, Poussaint TY, Grottka BE. Scoliosis: Evidence-Based Diagnostic Evaluation. Neuroimag Clin N Am 2003; 13: 335-341.